RESULT LIST

8 results found in the Worldwide database for: snapshot in the title AND metadata in the title or abstract (Results are sorted by date of upload in database)

METHOD AND DEVICE FOR PERMANENCE OF FILE SYSTEM **SNAPSHOT**

Inventor: ADKINS JANET ELIZABETH; CHANG JOON

Applicant: IBM

IPC: G06F12/00

Publication info: JP2005228329 - 2005-08-25

System and methods for transforming data from a source to target platform using snapshot

Inventor: ANDRE JEFFREY (US); TOMSULA PATRICK J Applicant: STORAGE TECHNOLOGY CORP (US)

EC:

IPC: G06F15/16

Publication info: US6874035 - 2005-03-29

Systems and methods of data migration in snapshot operations

Inventor: BURTON DAVID ALAN (US); OTTERNESS

Applicant:

NOEL SIMEN (US)

EC:

IPC: G06F12/16

Publication info: US2004260900 - 2004-12-23

Snapshot facility allowing preservation of chronological views on block drives

Inventor: LIN ALVIS (TW); LIAO CHEEN (TW)

Applicant:

EC: G06F11/14A4

IPC: G06F12/16

Publication info: US2004093474 - 2004-05-13

Low overhead snapshot in a storage array using a tree-of-slabs metadata

Inventor: LEE WHAY SING (US); RAO RAGHAVENDRA J Applicant:

(US)

EC:

IPC: G06F12/00

Publication info: US2004078533 - 2004-04-22

METHOD FOR ACQUIRING SNAPSHOT, STORAGE SYSTEM AND DISK DEVICE

Inventor: MIZUNO YOICHI; MATSUNAMI NAOTO; (+3) Applicant: HITACHI LTD

EC: G06F11/14A4B1M

IPC: G06F12/00; G06F3/06; (+1)

Publication info: JP2003280964 - 2003-10-03

System and method for storage of snapshot metadata in a remote file

Inventor: MANLEY STEPHEN L (GB); CHEN RAYMOND C Applicant:

(US); (+1)

EC: G06F17/30F

IPC: G06F12/00

Publication info: US2003182322 - 2003-09-25

File system snapshot with ditto address feature

Inventor: HASKIN ROGER L (US); SAWDON WAYNE A Applicant: IBM (US)

(US); (+2)

EC: G06F17/30F

IPC: G06F12/00

Publication info: US2003158863 - 2003-08-21

Data supplied from the esp@cenet database - Worldwide

RESULT LIST

Approximately 44 results found in the Worldwide database for: snapshot in the title AND file in the title or abstract (Results are sorted by date of upload in database)

METHOD AND APPARATUS FOR FILE SYSTEM SNAPSHOT PERSISTANCE

Inventor: JANET ELIZABETH ADKINS; JOON CHANG

Applicant: IBM

EC:

IPC:

Publication info: SG114691 - 2005-09-28

System and method for performing an image level snapshot and for

restoring partial volume data

Inventor: PRAHLAD ANAND (US); NGO DAVID (US);

Applicant:

EC:

IPC: G06F7/00

Publication info: US2005193026 - 2005-09-01

SNAPSHOT ACQUISITION METHOD

Inventor: KUBO HIROSHI; SUGIYAMA HIROHARU

Applicant: HITACHI LTD

IPC: G06F12/00; G06F3/06

Publication info: JP2005202915 - 2005-07-28

Method for acquiring snapshot

Inventor: KUBO KEI (JP); SUGIYAMA KOJI (JP)

Applicant:

IPC: G06F12/16

Publication info: US2005138312 - 2005-06-23

BLOCK LEVEL DATA SNAPSHOT SYSTEM AND METHOD

Inventor: GUTHRIE II JOHN L (US)

Applicant: ZETTA SYSTEMS INC (US); GUTHRIE II JOHN

L (US)

EC:

IPC: G06F

Publication info: WO2005052734 - 2005-06-09

SYSTEM AND METHOD FOR PERFORMING AN IMAGE LEVEL SNAPSHOT AND FOR RESTORING PARTIAL VOLUME DATA

Inventor: VARADHARAJAN PRAKASH (IN); PAWAR

Applicant: COMMVAULT SYSTEMS INC (US);

VARADHARAJAN PRAKASH (IN); (+4)

RAHUAL (IN); (+3) EC:

IPC: G06F

Publication info: WO2005048085 - 2005-05-26

Organization of read-write snapshot copies in a data storage system

Inventor: TUMMALA HIMABINDU (US); ARMANGAU

Applicant:

PHILIPPE (US)

EC:

IPC: G06F12/00

Publication info: US2005065985 - 2005-03-24

Maintenance of a file version set including read-only and read-write snapshot copies of a production file

Inventor: BIXBY PETER (US); MULLICK SACHIN (US); Applicant:

(+3)EC:

IPC: G06F17/30

IPC: G06F12/00

Publication info: US2005065986 - 2005-03-24

Providing a snapshot of a subject of a file system

Inventor: SAWDON WAYNE A (US); SCHMUCK FRANK B Applicant: IBM (US)

(US)

EC:

Publication info: US2005050110 - 2005-03-03 10 PROVIDING A SNAPSHOT OF A SUBSET OF A FILE SYSTEM

Inventor: SAWDON WAYNE A; SCHMUCK FRANK B

Applicant: IBM IPC: G06F11/14

Publication info: AU2003214039 - 2003-09-04

Data supplied from the esp@cenet database - Worldwide

SYSTEM AND METHOD FOR PERFORMING AN IMAGE LEVEL SNAPSHOT AND FOR RESTORING PARTIAL VOLUME DATA

Patent number:

WO2005048085

Publication date:

2005-05-26

Inventor:

VARADHARAJAN PRAKASH (IN); PAWAR RAHUAL (IN); KUMAR AVINASH (IN); PRAHLAD ANAND (US);

NGO DAVID (US)

Applicant:

COMMVAULT SYSTEMS INC (US); VARADHARAJAN PRAKASH (IN); PAWAR RAHUAL (IN); KUMAR AVINASH (IN); PRAHLAD ANAND (US); NGO DAVID

(US)

Classification:

- international:

(IPC1-7): G06F

- european:

Application number: WO2004US38455 20041115

Priority number(s): US20030519576P 20031113; US20030519876P

20031113

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Also published as:

NO2005050386 (A2)

Abstract of **WO2005048085**

The present invention relates to a method for performing an image level copy of an information store. The present invention comprises performing a snapshot of an information store that indexes the contents of the information store, retrieving data associated with the contents of the information store from a file allocation table, copying the contents of the information store to a storage device based on the snapshot, and associating the retrieved data with the copied contents to provide file system information for the copied contents.

Data supplied from the esp@cenet database - Worldwide

RESULT LIST

12 results found in the Worldwide database for: snapshot in the title AND address in the title or abstract (Results are sorted by date of upload in database)

On-line data backup method based on data volume snapshot

Inventor: LI LIHONG (CN); WU JIANG (CN); (+1)

Applicant: LENOVO BEDING CO LTD (CN)

IPC: G06F12/16

Publication info: CN1567262 - 2005-01-19

THIN-PROVISIONING WITH SNAPSHOT TECHNOLOGY

Inventor: CAMERON DOUGLAS J (US)

Applicant: 3PARDATA INC (US); CAMERON DOUGLAS J

(US)

IPC: G06F12/00 EC:

Publication info: WO2004102391 - 2004-11-25

Fibre channel fabric snapshot service

Inventor: KAUSHIK BALAKUMAR N (US);

Applicant: BROCADE COMM SYSTEMS INC (US)

BALASUBRAMANIAN SHANKAR (US); (+1)

EC: H04L29/08A7 IPC: G06F12/00

Publication info: US2004220971 - 2004-11-04

Organization of multiple snapshot copies in a data storage system

Inventor: ARMANGAU PHILIPPE (US); BERGANT MILENAApplicant:

(US); (+3)

EC: IPC: G06F17/30

Publication info: US2004030727 - 2004-02-12

Writable file system snapshot with ditto address feature

Inventor: SAWDON WAYNE A (US); SCHMUCK FRANK B Applicant: IBM (US)

(US); (+1)

EC: G06F17/30F

Publication info: US2003158834 - 2003-08-21

File system snapshot with ditto address feature

Inventor: HASKIN ROGER L (US); SAWDON WAYNE A Applicant: IBM (US)

(US); (+2)

EC: G06F17/30F IPC: G06F12/00

Publication info: US2003158863 - 2003-08-21

Copy method supplementing outboard data copy with previously instituted copy-on-write logical snapshot to create duplicate consistent

with source data as of designated time

Inventor: KACZMARSKI MICHAEL ALLEN (US); WARREN Applicant:

DONALD PAUL (US)

EC: IPC: G06F12/00

Publication info: US2003140070 - 2003-07-24

System and method for remotely creating a physical memory snapshot over a serial bus

Inventor: VACHON ANDRE F (US);

Applicant:

IPC: G06F7/00

CHRYSANTHAKOPOULOS GEORGIOS (US)

EC: IPC: G06F11/26

Publication info: US2002078404 - 2002-06-20

Snapshot and recall based mechanism to handle read after read conflict

Inventor: GUPTA C NAGESH (US)

Applicant: HEWLETT PACKARD CO (US)

EC: G06F13/42C1S IPC: G06F13/14; G06F12/00

Publication info: **US6449673** - 2002-09-10

System and method for real-time data backup using snapshot copying

with selective compaction of backup data

Inventor: FRANKLIN CHRIS (US)

EC:

Applicant: ADAPTEC INC (US) IPC: G06F12/00; G06F12/16

Publication info: **US6061770** - 2000-05-09

Data supplied from the esp@cenet database - Worldwide

RESULT LIST

21 results found in the Worldwide database for: snapshot in the title AND disk in the title or abstract (Results are sorted by date of upload in database)

DISK ARRAY DEVICE WITH SNAPSHOT SIMULATION FUNCTION

Inventor: SAKAI TOSHIHIRO

Applicant: NIPPON ELECTRIC CO

EC:

IPC: G06F3/06

Publication info: JP2005128590 - 2005-05-19

BLOCK LEVEL DATA SNAPSHOT SYSTEM AND METHOD

Inventor: GUTHRIE II JOHN L (US)

Applicant: ZETTA SYSTEMS INC (US); GUTHRIE II JOHN

IPC: G06F

Publication info: WO2005052734 - 2005-06-09

SNAPSHOT QUICKENING METHOD

Inventor: HARUMA YUMIKO; SUGIYAMA HIROHARU;

Applicant: HITACHI LTD

(+3)

EC:

IPC: G06F3/06

Publication info: JP2005055972 - 2005-03-03

System and methods for transforming data from a source to target

platform using snapshot

Inventor: ANDRE JEFFREY (US); TOMSULA PATRICK J Applicant: STORAGE TECHNOLOGY CORP (US)

(US)

EC:

IPC: G06F15/16

Publication info: US6874035 - 2005-03-29

Snapshot marker

Inventor: LAM WAI (US)

Applicant:

EC: G06F12/08B2

IPC: G06F12/08; G06F12/16

Publication info: US2005005070 - 2005-01-06

THIN-PROVISIONING WITH SNAPSHOT TECHNOLOGY

Inventor: CAMERON DOUGLAS J (US)

Applicant: 3PARDATA INC (US); CAMERON DOUGLAS J

(US)

EC:

IPC: G06F12/00

Publication info: WO2004102391 - 2004-11-25

Persistent Snapshot Methods

Inventor: WELSH ALAN L (US); TOLPIN RICHARD M

Applicant: COLUMBIA DATA PRODUCTS INC (US)

(US); (+8)

EC:

IPC: G06F12/16

Publication info: US2004117572 - 2004-06-17

System and method of an efficient snapshot for shared large storage

Inventor: KIM YOUNG HO (KR); KANG DONG JAE (KR); Applicant:

(+4)

EC:

EC: G06F11/14A4B1M8

IPC: G06F12/16

IPC: G06F17/00; G06F7/00

Publication info: US2004083345 - 2004-04-29

Snapshot creating method and apparatus Inventor: HARA JUNICHI (JP); NAKANO TAKAHIRO (JP); Applicant:

(+3)

Publication info: US2004103104 - 2004-05-27

10 Persistent Snapshot Management System

Inventor: GREEN ROBBIE A (US); MUIRRAGUI

Applicant:

PATRICIO R (US); (+8)

EC: IPC: G06F12/12 Publication info: US2003167380 - 2003-09-04

Data supplied from the esp@cenet database - Worldwide

RESULT LIST

2 results found in the Worldwide database for: inode in the title AND snapshot in the title or abstract (Results are sorted by date of upload in database)

System and method for asynchronous mirroring of snapshots at a destination using a purgatory directory and inode mapping Inventor: MANLEY STEPHEN L (GB); OWARA SHANE S Applicant:

(US)

EC: G06F11/20L4M8A; G06F17/30F

IPC: G06F12/00

Publication info: US2003195903 - 2003-10-16

System and method for asynchronous mirroring of snapshots at a destination using a purgatory directory and inode mapping

Inventor: MANLEY STEPHEN L (GB); OWARA SHANE S Applicant:

EC: G06F11/20L4M8A; G06F17/30F

IPC: G06F12/00

Publication info: **US2003182325** - 2003-09-25

Data supplied from the esp@cenet database - Worldwide



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Improving storage system availability with D-GRAID

>

Muthian Sivathanu, Vijayan Prabhakaran, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-

May 2005 ACM Transactions on Storage (TOS), Volume 1 Issue 2

Publisher: ACM Press

Full text available: pdf(700.30 KB) Additional Information: full citation, abstract, references, index terms

We present the design, implementation, and evaluation of D-GRAID, a gracefully degrading and quickly recovering RAID storage array. D-GRAID ensures that most files within the file system remain available even when an unexpectedly high number of faults occur. D-GRAID achieves high availability through aggressive replication of semantically critical data, and fault-isolated placement of logically related data. D-GRAID also recovers from failures quickly, restoring only live file system data to a h ...

Keywords: Block-based storage, Disk array, RAID, fault isolation, file systems, smart disks

The logical disk: a new approach to improving file systems



Wiebren de Jonge, M. Frans Kaashoek, Wilson C. Hsieh

December 1993 ACM SIGOPS Operating Systems Review, Proceedings of the fourteenth ACM symposium on Operating systems principles SOSP

'93, Volume 27 Issue 5

Publisher: ACM Press

Full text available: pdf(1.55 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

The Logical Disk (LD) defines a new interface to disk storage that separates file management and disk management by using logical block numbers and block lists. The LD interface is designed to support multiple file systems and to allow multiple implementations, both of which are important given the increasing use of kernels that support multiple operating system personalities. A log-structured implementation of LD (LLD) demonstrates that LD can be implemented efficiently. LLD adds about 5% to 10% ...

Keywords: MINIX, UNIX, disk storage management, file system organization, file system performance, high write performance, log-structured file system, logical disk

3 Serverless network file systems

Thomas E. Anderson, Michael D. Dahlin, Jeanna M. Neefe, David A. Patterson, Drew S. Roselli, Randolph Y. Wang

February 1996 ACM Transactions on Computer Systems (TOCS), Volume 14 Issue 1

Publisher: ACM Press

Full text available: pdf(2.69 MB)

Additional Information: full citation, abstract, references, citings, index terms

We propose a new paradigm for network file system design: serverless network file systems. While traditional network file systems rely on a central server machine, a serverless system utilizes workstations cooperating as peers to provide all file system services. Any machine in the system can store, cache, or control any block of data. Our approach uses this location independence, in combination with fast local area networks, to provide better performance and scalability th ...

Keywords: RAID, log cleaning, log structured, log-based striping, logging, redundant data storage, scalable performance

Serverless network file systems

T. E. Anderson, M. D. Dahlin, J. M. Neefe, D. A. Patterson, D. S. Roselli, R. Y. Wang December 1995 ACM SIGOPS Operating Systems Review, Proceedings of the fifteenth ACM symposium on Operating systems principles SOSP '95, Volume 29

Publisher: ACM Press

Full text available: pdf(2.48 MB) Additional Information: full citation, references, citings, index terms

Doubly distorted mirrors



Cyril U. Orji, Jon A. Solworth

June 1993 ACM SIGMOD Record, Proceedings of the 1993 ACM SIGMOD international conference on Management of data SIGMOD '93, Volume 22 Issue 2

Publisher: ACM Press

Full text available: pdf(1.05 MB)

Additional Information: full citation, abstract, references, citings, index <u>terms</u>

Traditional mirrored disk systems provide high reliability by multiplexing disks. Performance is improved with parallel reads and shorter read seeks. However, writes must be performed by both disks, limiting performance. Doubly distorted mirrors increase the number of physical writes per logical write from 2 to 3, but performs logical writes more efficiently. This reduces the cost of a random logical write to 1/3 of the cost of a read. Moreover, much of the write ...

⁶ File system aging—increasing the relevance of file system benchmarks



Keith A. Smith, Margo I. Seltzer

June 1997 ACM SIGMETRICS Performance Evaluation Review, Proceedings of the 1997 ACM SIGMETRICS international conference on Measurement and modeling of computer systems SIGMETRICS '97, Volume 25 Issue 1

Publisher: ACM Press

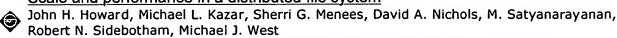
Full text available: pdf(1.81 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

Benchmarks are important because they provide a means for users and researchers to characterize how their workloads will perform on different systems and different system architectures. The field of file system design is no different from other areas of research in this regard, and a variety of file system benchmarks are in use, representing a wide range of the different user workloads that may be run on a file system. A realistic benchmark,

however, is only one of the tools that is required in ...

7 Scale and performance in a distributed file system



February 1988 ACM Transactions on Computer Systems (TOCS), Volume 6 Issue 1

Publisher: ACM Press

Full text available: pdf(2.38 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

The Andrew File System is a location-transparent distributed tile system that will eventually span more than 5000 workstations at Carnegie Mellon University. Large scale affects performance and complicates system operation. In this paper we present observations of a prototype implementation, motivate changes in the areas of cache validation, server process structure, name translation, and low-level storage representation, and quantitatively demonstrate Andrews ability to scale gracefully. W ...

8 Ext3cow: a time-shifting file system for regulatory compliance

Zachary Peterson, Randal Burns

May 2005 ACM Transactions on Storage (TOS), Volume 1 Issue 2

Publisher: ACM Press

Full text available: pdf(443.01 KB) Additional Information: full citation, abstract, references, index terms

The ext3cow file system, built on the popular ext3 file system, provides an open-source file versioning and snapshot platform for compliance with the versioning and audtitability requirements of recent electronic record retention legislation. Ext3cow provides a timeshifting interface that permits a real-time and continuous view of data in the past. Timeshifting does not pollute the file system namespace nor require snapshots to be mounted as a separate file system. Further, ext3cow is i ...

Keywords: Versioning file systems, copy-on-write

A high performance multi-structured file system design

Keith Muller, Joseph Pasquale

September 1991 ACM SIGOPS Operating Systems Review , Proceedings of the thirteenth ACM symposium on Operating systems principles SOSP **'91**, Volume 25 Issue 5

Publisher: ACM Press

Full text available: pdf(1.40 MB)

Additional Information: full citation, abstract, references, citings, index terms

File system I/O is increasingly becoming a performance bottleneck in large distributed computer systems. This is due to the increased file I/O demands of new applications, the inability of any single storage structure to respond to these demands, and the slow decline of, disk access times (latency and seek) relative to the rapid increase in CPU speeds, memory size, and network bandwidth. We present a multi-structured file system designed for high bandwidth I/O and fast response. Our design ...

10 IRON file systems



Vijayan Prabhakaran, Lakshm i N. Bairavasundaram, Nitin Agrawal, Haryadi S. Gunawi, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau

October 2005 ACM SIGOPS Operating Systems Review , Proceedings of the twentieth ACM symposium on Operating systems principles SOSP '05, Volume 39 Issue

Publisher: ACM Press

Full text available: pdf(323.82 KB) Additional Information: full citation, abstract, references, index terms

Commodity file systems trust disks to either work or fail completely, yet modern disks exhibit more complex failure modes. We suggest a new fail-partial failure model for disks, which incorporates realistic localized faults such as latent sector errors and block corruption. We then develop and apply a novel failure-policy fingerprinting framework, to investigate how commodity file systems react to a range of more realistic disk failures. We classify their failure policies in a new ...

Keywords: IRON file systems, block corruption, disks, fail-partial failure model, fault tolerance, internal, latent sector errors, redundancy, reliability, storage

11 Improving the performance of log-structured file systems with adaptive methods



Jeanna Neefe Matthews, Drew Roselli, Adam M. Costello, Randolph Y. Wang, Thomas E. Anderson

October 1997 ACM SIGOPS Operating Systems Review , Proceedings of the sixteenth ACM symposium on Operating systems principles SOSP '97, Volume 31 Issue

Publisher: ACM Press

Full text available: pdf(2.18 MB) Additional Information: full citation, references, citings, index terms

12 Fast and secure distributed read-only file system



Kevin Fu, M. Frans Kaashoek, David Mazières
February 2002 ACM Transactions on Computer Systems (TOCS), Volume 20 Issue 1

Publisher: ACM Press

Full text available: Top pdf(317.54 KB) Additional Information: full citation, abstract, references, index terms

Internet users increasingly rely on publicly available data for everything from software installation to investment decisions. Unfortunately, the vast majority of public content on the Internet comes with no integrity or authenticity guarantees. This paper presents the self-certifying read-only file system, a content distribution system providing secure, scalable access to public, read-only data. The read-only file system makes the security of published content independent from that of the distri ...

Keywords: File systems, read-only, security

13 Reimplementing the Cedar file system using logging and group commit





R. Hagmann

November 1987 ACM SIGOPS Operating Systems Review , Proceedings of the eleventh ACM Symposium on Operating systems principles SOSP '87, Volume 21

Publisher: ACM Press

Full text available: pdf(775.94 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

The workstation file system for the Cedar programming environment was modified to improve its robustness and performance. Previously, the file system used hardwareprovided labels on disk blocks to increase robustness against hardware and software errors. The new system does not require hardware disk labels, yet is more robust than the old system. Recovery is rapid after a crash. The performance of operations on file system metadata, e.g., file creation or open, is greatly improved. < ...

14 An end-to-end approach to globally scalable network storage Micah Beck, Terry Moore, James S. Plank



August 2002 ACM SIGCOMM Computer Communication Review, Proceedings of the



2002 conference on Applications, technologies, architectures, and protocols for computer communications SIGCOMM '02, Volume 32 Issue 4

Publisher: ACM Press

Full text available: Topf(286.82 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

This paper discusses the application of end-to-end design principles, which are characteristic of the architecture of the Internet, to network storage. While putting storage into the network fabric may seem to contradict end-to-end arguments, we try to show not only that there is no contradiction, but also that adherence to such an approach is the key to achieving true scalability of shared network storage. After discussing end-toend arguments with respect to several properties of network stora ...

Keywords: IBP, asynchronous communications, end-to-end design, exNode, internet backplane protocol, logistical networking, network storage, scalability, store and forward network, wide area storage

¹⁵ Fault tolerance under UNIX



Anita Borg, Wolfgang Blau, Wolfgang Graetsch, Ferdinand Herrmann, Wolfgang Oberle January 1989 ACM Transactions on Computer Systems (TOCS), Volume 7 Issue 1

Publisher: ACM Press

Full text available: pdf(1.97 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

The initial design for a distributed, fault-tolerant version of UNIX based on three-way atomic message transmission was presented in an earlier paper [3]. The implementation effort then moved from Auragen Systems1 to Nixdorf Computer where it was completed. This paper describes the working system, now known as the TARGON/32. The original design left open questions in at least two areas: fault tolerance for server processes and recovery after a crash were brie ...

16 Replication in the harp file system



Barbara Liskov, Sanjay Ghemawat, Robert Gruber, Paul Johnson, Liuba Shrira September 1991 ACM SIGOPS Operating Systems Review, Proceedings of the thirteenth ACM symposium on Operating systems principles SOSP '91, Volume 25 Issue 5

Publisher: ACM Press

Full text available: pdf(1.60 MB)

Additional Information: full citation, abstract, references, citings, index terms

This paper describes the design and implementation of the Harp file system. Harp is a replicated Unix file system accessible via the VFS interface. It provides highly available and reliable storage for files and guarantees that file operations are executed atomically in spite of concurrency and failures. It uses a novel variation of the primary copy replication technique that provides good performance because it allows us to trade disk accesses for network communication. Harp is intended to be u ...

17 X-RAY: A Non-Invasive Exclusive Caching Mechanism for RAIDs



Lakshmi N. Bairavasundaram, Muthian Sivathanu, Andrea C. Arpaci-Dusseau, Remzi H.

March 2004 ACM SIGARCH Computer Architecture News, Proceedings of the 31st annual international symposium on Computer architecture ISCA '04, Volume 32 Issue 2

Publisher: IEEE Computer Society, ACM Press

Full text available: pdf(250.59 KB) Additional Information: full citation, abstract, citings

RAID storage arrays often possess gigabytes of RAM forcaching disk blocks. Currently,

most RAID systems use LRUor LRU-like policies to manage these caches. Since these arraycaches do not recognize the presence of file system buffer caches, they redundantly retain many of the same blocks as those cachedby the file system, thereby wasting precious cache space. In thispaper, we introduce X-RAY, an exclusive RAID array cachingmechanism. X-RAY achieves a high degree of (but not perfect) exclusivitythr ...

18 Design and implementation of a configurable mixed-media file system

Silvano Maffeis

October 1994 ACM SIGOPS Operating Systems Review, Volume 28 Issue 4

Publisher: ACM Press

Full text available: 📆 pdf(333.42 KB) Additional Information: full citation, abstract, index terms

In this paper we describe the design and implementation of a configurable mixed-media file system. The attribute configurable means that a file system serving a specific application area can be realized out of a library of reusable file system classes. The attribute mixed-media stands for the file system's ability to integrate different media types (RAM, harddisks, WORM optical disks, CDROMs, tape devices, RAIDs etc.) into a virtual storage, and making applications unaware of this ...

19 A cryptographic file system for UNIX



Matt Blaze

December 1993 Proceedings of the 1st ACM conference on Computer and communications security

Publisher: ACM Press

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> Full text available: pdf(955.62 KB)

Although cryptographic techniques are playing an increasingly important role in modern computing system security, user-level tools for encrypting file data are cumbersome and suffer from a number of inherent vulnerabilities. The Cryptographic File System (CFS) pushes encryption services into the file system itself. CFS supports secure storage at the system level through a standard Unix file system interface to encrypted files. Users associate a cryptographic key with the directories ...

20 Recovery in the Calypso file system



Murthy Devarakonda, Bill Kish, Ajay Mohindra

August 1996 ACM Transactions on Computer Systems (TOCS), Volume 14 Issue 3

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(318.88 KB) terms, review

This article presents the deign and implementation of the recovery scheme in Calypso. Calypso is a cluster-optimized, distributed file system for UNIX clusters. As in Sprite and AFS, Calypso servers are stateful and scale well to a large number of clients. The recovery scheme in Calypso is nondisruptive, meaning that open files remain open, client modified data are saved, and in-flight operations are properly handled across server recover. The scheme uses distributed state amount the client ...

Keywords: Calypso, cluster systems, distributed state, state reconstruction

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Ext3cow: a time-shifting file system for regulatory compliance

Zachary Peterson, Randal Burns

May 2005 ACM Transactions on Storage (TOS), Volume 1 Issue 2

Publisher: ACM Press

Full text available: pdf(443.01 KB) Additional Information: full citation, abstract, references, index terms

The ext3cow file system, built on the popular ext3 file system, provides an open-source file versioning and snapshot platform for compliance with the versioning and audtitability requirements of recent electronic record retention legislation. Ext3cow provides a timeshifting interface that permits a real-time and continuous view of data in the past. Timeshifting does not pollute the file system namespace nor require snapshots to be mounted as a separate file system. Further, ext3cow is i ...

Keywords: Versioning file systems, copy-on-write

² Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research

Publisher: IBM Press

Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

3 Services: ELF: an efficient log-structured flash file system for micro sensor nodes

Hui Dai, Michael Neufeld, Richard Han

November 2004 Proceedings of the 2nd international conference on Embedded networked sensor systems

Publisher: ACM Press

Full text available: Top pdf(291.68 KB) Additional Information: full citation, abstract, references, index terms

An efficient and reliable file storage system is important to micro sensor nodes so that

data can be logged for later asynchronous delivery across a multi-hop wireless sensor network. Designing and implementing such a file system for a sensor node faces various challenges. Sensor nodes are highly resource constrained in terms of limited runtime memory, limited persistent storage, and finite energy. Also, the flash storage medium on sensor nodes differs in a variety of ways from the traditiona ...

Keywords: eeprom, file system, flash, log structured, reliability, sensor

An algebraic approach to file synchronization

Norman Ramsey, El"od Csirmaz

September 2001 ACM SIGSOFT Software Engineering Notes, Proceedings of the 8th European software engineering conference held jointly with 9th ACM SIGSOFT international symposium on Foundations of software engineering ESEC/FSE-9, Volume 26 Issue 5

Publisher: ACM Press

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> Full text available: pdf(301.78 KB) terms

A file synchronizer restores consistency after multiple replicas of a filesystem have been changed independently. We present an algebra for reasoning about operations on filesystems and show that it is sound and complete with respect to a simple model. The algebra enables us to specify a file-synchronization algorithm that can be combined with several different conflict-resolution policies. By contrast, previous work builds the conflictresolution policy into the specification, or worse, ...

5 Lineage retrieval for scientific data processing: a survey

Rajendra Bose, James Frew

March 2005 ACM Computing Surveys (CSUR), Volume 37 Issue 1

Publisher: ACM Press

Full text available: The pdf(728.75 KB) Additional Information: full citation, abstract, references, index terms

Scientific research relies as much on the dissemination and exchange of data sets as on the publication of conclusions. Accurately tracking the lineage (origin and subsequent processing history) of scientific data sets is thus imperative for the complete documentation of scientific work. Researchers are effectively prevented from determining, preserving, or providing the lineage of the computational data products they use and create, however, because of the lack of a definitive model for lineage ...

Keywords: Data lineage, audit, data provenance, scientific data, scientific workflow

Real-time shading

Marc Olano, Kurt Akeley, John C. Hart, Wolfgang Heidrich, Michael McCool, Jason L. Mitchell, Randi Rost

August 2004 Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04

Publisher: ACM Press

Full text available: R pdf(7.39 MB) Additional Information: full citation, abstract

Real-time procedural shading was once seen as a distant dream. When the first version of this course was offered four years ago, real-time shading was possible, but only with oneof-a-kind hardware or by combining the effects of tens to hundreds of rendering passes. Today, almost every new computer comes with graphics hardware capable of interactively executing shaders of thousands to tens of thousands of instructions. This course has been redesigned to address today's real-time shading capabili ...

7 Visualizing geospatial data

Theresa Marie Rhyne, Alan MacEachern, Theresa-Marie Rhyne

August 2004 Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH

Publisher: ACM Press

Full text available: 🔁 pdf(13.99 MB) Additional Information: full citation, abstract

This course reviews concepts and highlights new directions in GeoVisualization. We review four levels of integrating geospatial data and geographic information systems (GIS) with scientific and information visualization (VIS) methods. These include: • Rudimentary: minimal data sharing between the GIS and Vis systems. Operational: consistency of geospatial data. Functional: transparent communication between the GIS and Vis systems. Merged: one comprehensive toolkit environmentW ...

8 Speculative execution in a distributed file system

Edmund B. Nightingale, Peter M. Chen, Jason Flinn

October 2005 ACM SIGOPS Operating Systems Review, Proceedings of the twentieth ACM symposium on Operating systems principles SOSP '05, Volume 39 Issue

Publisher: ACM Press

Full text available: pdf(305.54 KB) Additional Information: full citation, abstract, references, index terms

Speculator provides Linux kernel support for speculative execution. It allows multiple processes to share speculative state by tracking causal dependencies propagated through inter-process communication. It guarantees correct execution by preventing speculative processes from externalizing output, e.g., sending a network message or writing to the screen, until the speculations on which that output depends have proven to be correct. Speculator improves the performance of distributed file systems ...

Keywords: causality, distributed file systems, speculative execution

Routing design in operational networks: a look from the inside

Geoffrey Xie, Jibin Zhan, David A. Maltz, Hui Zhang, Albert Greenberg, Gísli Hjálmtýsson August 2004 ACM SIGCOMM Computer Communication Review, Proceedings of the 2004 conference on Applications, technologies, architectures, and protocols for computer communications SIGCOMM '04, Volume 34 Issue 4

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(372.95 KB)

In any IP network, routing protocols provide the intelligence that takes a collection of physical links and transforms them into a network that enables packets to travel from one host to another. Though routing design is arguably the single most important design task for large IP networks, there has been very little systematic investigation into how routing protocols are actually used in production networks to implement the goals of network architects. We have developed a methodology for reverse ...

Keywords: network modeling, reverse engineering, routing design, static configuration analysis

10 Kernel korner: IBM's journaled filesystem

Steve Best, David Gordon, Ibrahim Haddad January 2003 Linux Journal, Volume 2003 Issue 105

Publisher: Specialized Systems Consultants, Inc.

Full text available: html(20.45 KB) Additional Information: full citation, index terms

11 Soft updates: a solution to the metadata update problem in file systems

Gregory R. Ganger, Marshall Kirk McKusick, Craig A. N. Soules, Yale N. Patt May 2000 ACM Transactions on Computer Systems (TOCS), Volume 18 Issue 2

Publisher: ACM Press

Full text available: pdf(147.90 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

Metadata updates, such as file creation and block allocation, have consistently been identified as a source of performance, integrity, security, and availability problems for file systems. Soft updates is an implementation technique for low-cost sequencing of fine-grained updates to write-back cache blocks. Using soft updates to track and enforce metadata update dependencies, a file system can safely use delayed writes for almost all file operations. This article describes soft ...

12 <u>A Self-Organizing Storage Cluster for Parallel Data-Intensive Applications</u>
Hong Tang, Aziz Gulbeden, Jingyu Zhou, William Strathearn, Tao Yang, Lingkun Chu
November 2004 **Proceedings of the 2004 ACM/IEEE conference on Supercomputing**

Publisher: IEEE Computer Society

Full text available: pdf(330.26 KB) Additional Information: full citation, abstract

Cluster-based storage systems are popular for data-intensive applications and it is desirable yet challenging to provide incremental expansion and high availability while achieving scalability and strong consistency. This paper presents the design and implementation of a self-organizing storage cluster called Sorrento, which targets data-intensive workload with highly parallel requests and low write-sharing patterns. Sorrento automatically adapts to storage node joins and departures, and the sys ...

13 Web3D in ocean science learning environments: virtual big beef creek

Bruce Campbell, Paul Collins, Hunter Hadaway, Nick Hedley, Mark Stoermer February 2002 Proceeding of the seventh international conference on 3D Web technology

Publisher: ACM Press

Full text available: 📆 pdf(387.03 KB) Additional Information: full citation, abstract, references, index terms

The Virtual Reality Modeling Language (VRML), Java 3D software development packages, and World Wide Web (the Web) offer great potential for delivering three-dimensional, collaborative virtual environments to broad, on-line audiences. These capabilities have significant potential in ocean sciences, so a visualization environment was developed to explore these possibilities. The University of Washington's Virtual Big Beef Creek (VBBC) project has been continuously refined since its initial impleme ...

Keywords: VRML, interface paradigms, virtual environments, virtual geography, virtual worlds

14 <u>Dynamic Metadata Management for Petabyte-Scale File Systems</u>

Sage A. Weil, Kristal T. Pollack, Scott A. Brandt, Ethan L. Miller

November 2004 Proceedings of the 2004 ACM/IEEE conference on Supercomputing

Publisher: IEEE Computer Society

Full text available: pdf(175.04 KB) Additional Information: full citation, abstract

In petabyte-scale distributed file systems that decouple read and write from metadata operations, behavior of the metadata server cluster will be critical to overall system performance and scalability. We present a dynamic subtree partitioning and adaptive metadata management system designed to efficiently manage hierarchical metadata

workloads that evolve over time. We examine the relative merits of our approach in the context of traditional workload partitioning strategies, and demonstrate the ...

15 Papers: Information visualization: PhotoMesa: a zoomable image browser using



quantum treemaps and bubblemaps Benjamin B. Bederson

November 2001 Proceedings of the 14th annual ACM symposium on User interface software and technology

Publisher: ACM Press

Full text available: pdf(1.34 MB)

Additional Information: full citation, abstract, references, citings, index terms

PhotoMesa is a zoomable image browser that uses a novel treemap algorithm to present large numbers of images grouped by directory, or other available metadata. It uses a new interaction technique for zoomable user interfaces designed for novices and family use that makes it straightforward to navigate through the space of images, and impossible to get lost. Photo Mesa groups images using one of two new algorithms that lay out groups of objects in a 2D space-filling manner. Quantum treemaps ...

Keywords: Animation, Graphics, Image Browsers, Jazz, Treemaps, Zoomable User Interfaces (ZUIs)

¹⁶ Frangipani: a scalable distributed file system

Chandramohan A. Thekkath, Timothy Mann, Edward K. Lee

October 1997 ACM SIGOPS Operating Systems Review, Proceedings of the sixteenth ACM symposium on Operating systems principles SOSP '97, Volume 31 Issue

Publisher: ACM Press

Full text available: pdf(2.20 MB)

Additional Information: full citation, references, citings, index terms

17 The Integrated Dictionary/Directory System

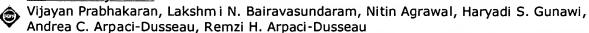
Frank W. Allen, Mary E. S. Loomis, Michael V. Mannino

June 1982 ACM Computing Surveys (CSUR), Volume 14 Issue 2

Publisher: ACM Press

Full text available: pdf(2.71 MB) Additional Information: full citation, references, citings, index terms

18 IRON file systems



October 2005 ACM SIGOPS Operating Systems Review, Proceedings of the twentieth ACM symposium on Operating systems principles SOSP '05, Volume 39 Issue

Publisher: ACM Press

Full text available: pdf(323.82 KB) Additional Information: full citation, abstract, references, index terms

Commodity file systems trust disks to either work or fail completely, yet modern disks exhibit more complex failure modes. We suggest a new fail-partial failure model for disks, which incorporates realistic localized faults such as latent sector errors and block corruption. We then develop and apply a novel failure-policy fingerprinting framework, to investigate how commodity file systems react to a range of more realistic disk failures. We classify their failure policies in a new ...

Keywords: IRON file systems, block corruption, disks, fail-partial failure model, fault tolerance, internal, latent sector errors, redundancy, reliability, storage

19 Embedded systems: applications, solutions and techniques (EMBS): A fast start-up technique for flash memory based computing systems





Keun Soo Yim, Jihong Kim, Kern Koh

March 2005 Proceedings of the 2005 ACM symposium on Applied computing

Publisher: ACM Press

Full text available: pdf(324.29 KB) Additional Information: full citation, abstract, references, index terms

Flash memory based embedded computing systems are becoming increasingly prevalent. These systems typically have to provide an instant start-up time. However, we observe that mounting a file system for flash memory takes 1 to 25 seconds mainly depending on the flash capacity. Since the flash chip capacity is doubled in every year, this mounting time will soon become the most dominant reason of the delay of system start-up time. Therefore, in this paper, we present instant mounting techniques for ...

Keywords: fast booting, fast mounting, flash memory, metadata snapshot

20 A Computational Database System for Generatinn Unstructured Hexahedral Meshes with Billions of Elements



Tiankai Tu, David R. O'Hallaron

November 2004 Proceedings of the 2004 ACM/IEEE conference on Supercomputing

Publisher: IEEE Computer Society

Full text available: pdf(222.13 KB) Additional Information: full citation, abstract

For a large class of physical simulations with relatively simple geometries, unstructured octree-based hexahedral meshes provide a good compromise between adaptivity and simplicity. However, generating unstructured hexahedral meshes with over 1 billion elements remains a challenging task. We propose a database approach to solve this problem. Instead of merely storing generated meshes into conventional databases, we have developed a new kind of software system called Computational Database System ...

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1 4.2BSD and 4.3BSD as examples of the UNIX system

John S. Quarterman, Abraham Silberschatz, James L. Peterson December 1985 ACM Computing Surveys (CSUR), Volume 17 Issue 4

window

Publisher: ACM Press

Full text available: pdf(4.07 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u>

terms, review

This paper presents an in-depth examination of the 4.2 Berkeley Software Distribution, Virtual VAX-11 Version (4.2BSD), which is a version of the UNIX Time-Sharing System. There are notes throughout on 4.3BSD, the forthcoming system from the University of California at Berkeley. We trace the historical development of the UNIX system from its conception in 1969 until today, and describe the design principles that have guided this development. We then present the internal data structures and ...

On-line data compression in a log-structured file system

Michael Burrows, Charles Jerian, Butler Lampson, Timothy Mann

September 1992 ACM SIGPLAN Notices, Proceedings of the fifth international conference on Architectural support for programming languages and operating systems ASPLOS-V, Volume 27 Issue 9

Publisher: ACM Press

Full text available: pdf(1.02 MB)

Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Making Inodes Behave

Clay Claiborne

February 2001 Linux Journal

Publisher: Specialized Systems Consultants, Inc.

Full text available: html(19.47 KB) Additional Information: full citation, abstract, index terms

Claiborne describes the difficulties he encountered while building Linux systems for General Dynamics.

Deciding when to forget in the Elephant file system

Douglas S. Santry, Michael J. Feeley, Norman C. Hutchinson, Alistair C. Veitch, Ross W. Carton, Jacob Ofir

December 1999 ACM SIGOPS Operating Systems Review , Proceedings of the seventeenth ACM symposium on Operating systems principles SOSP **'99**, Volume 33 Issue 5

Publisher: ACM Press

Full text available: pdf(1.61 MB)

Additional Information: full citation, abstract, references, citings, index

Modern file systems associate the deletion of a file with the immediate release of storage, and file writes with the irrevocable change of file contents. We argue that this behavior is a relic of the past, when disk storage was a scarce resource. Today, large cheap disks make it possible for the file system to protect valuable data from accidental delete or overwrite. This paper describes the design, implementation, and performance of the Elephant file system, which automatically retains all impo ...

5 Research session: XML query processing #1: Efficient processing of XML path queries using the disk-based F&B Index

Wei Wang, Haifeng Jiang, Hongzhi Wang, Xuemin Lin, Hongjun Lu, Jianzhong Li August 2005 Proceedings of the 31st international conference on Very large data bases VLDB '05

Publisher: VLDB Endowment

Full text available: pdf(371.23 KB) Additional Information: full citation, abstract, references, index terms

With the proliferation of XML data and applications on the Internet, efficient XML query processing techniques are in great demand. Answering queries using XML indexes is a natural approach. A number of XML indexes have been proposed in the literature: among them, F&B Index is one powerful index as it is the smallest index that answers all twig queries. However, an F&B Index suffers from the following two problems: (1) it was originally proposed as a memory-based index while its size is usually ...

⁶ The design and implementation of a log-structured file system

Mendel Rosenblum, John K. Ousterhout

February 1992 ACM Transactions on Computer Systems (TOCS), Volume 10 Issue 1

Publisher: ACM Press

Full text available: pdf(1.97 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

This paper presents a new technique for disk storage management called a log-structured file system. A log-structured file system writes all modifications to disk sequentially in a log-like structure, thereby speeding up both file writing and crash recovery. The log is the only structure on disk; it contains indexing information so that files can be read back from the log efficiently. In order to maintain large free areas on disk for fast writing, we divide the log into

Keywords: Unix, disk storage management, fast crash recovery, file system organization, file system performance, high write performance, log-structured, logging

The design and implementation of a log-structured file system

Mendel Rosenblum, John K. Ousterhout

September 1991 ACM SIGOPS Operating Systems Review, Proceedings of the thirteenth ACM symposium on Operating systems principles SOSP

'91, Volume 25 Issue 5

Publisher: ACM Press

Full text available: pdf(1.81 MB)

Additional Information: full citation, abstract, references, citings, index terms

This paper presents a new technique for disk storage management called a log-structured file system. A log-structured file system writes all modifications to disk sequentially in a log-like structure, thereby speeding up both file writing and crash recovery. The log is the only structure on disk; it contains indexing information so that files can be read back from the log efficiently. In order to maintain large free areas on disk for fast writing, we divide





the log into segments an ...

8 Improving the efficiency of UNIX buffer caches

🙈 A. Braunstein, M. Riley, J. Wilkes

November 1989 ACM SIGOPS Operating Systems Review , Proceedings of the twelfth ACM symposium on Operating systems principles SOSP '89, Volume 23

Issue 5

Publisher: ACM Press

Full text available: pdf(1.46 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

This paper reports on the effects of using hardware virtual memory assists in managing file buffer caches in UNIX. A controlled experimental environment was constructed from two systems whose only difference was that one of them (XMF) used the virtual memory hardware to assist file buffer cache search and retrieval. An extensive series of performance characterizations was used to study the effects of varying the buffer cache size (from 3 Megabytes to 70 MB); I\O transfer sizes (from ...

9 Improving storage system availability with D-GRAID

Muthian Sivathanu, Vijayan Prabhakaran, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau

May 2005 ACM Transactions on Storage (TOS), Volume 1 Issue 2

Publisher: ACM Press

Full text available: pdf(700.30 KB) Additional Information: full citation, abstract, references, index terms

We present the design, implementation, and evaluation of D-GRAID, a gracefully degrading and quickly recovering RAID storage array. D-GRAID ensures that most files within the file system remain available even when an unexpectedly high number of faults occur. D-GRAID achieves high availability through aggressive replication of semantically critical data, and fault-isolated placement of logically related data. D-GRAID also recovers from failures quickly, restoring only live file system data to a h ...

Keywords: Block-based storage, Disk array, RAID, fault isolation, file systems, smart disks

10 Fault tolerance under UNIX

Anita Borg, Wolfgang Blau, Wolfgang Graetsch, Ferdinand Herrmann, Wolfgang Oberle January 1989 ACM Transactions on Computer Systems (TOCS), Volume 7 Issue 1

Publisher: ACM Press

Full text available: pdf(1.97 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

The initial design for a distributed, fault-tolerant version of UNIX based on three-way atomic message transmission was presented in an earlier paper [3]. The implementation effort then moved from Auragen Systems1 to Nixdorf Computer where it was completed. This paper describes the working system, now known as the TARGON/32. The original design left open questions in at least two areas: fault tolerance for server processes and recovery after a crash were brie ...

11 Frangipani: a scalable distributed file system

Chandramohan A. Thekkath, Timothy Mann, Edward K. Lee

October 1997 ACM SIGOPS Operating Systems Review , Proceedings of the sixteenth ACM symposium on Operating systems principles SOSP '97, Volume 31 Issue

Publisher: ACM Press

Full text available: pdf(2.20 MB)

Additional Information: full citation, references, citings, index terms

12 Techniques to increase disk access locality in the Minorca multimedia file system



Chuanbao Wang, Vera Goebel, Thomas Plagemann

October 1999 Proceedings of the seventh ACM international conference on Multimedia (Part 2)

Publisher: ACM Press

Full text available: pdf(483.67 KB) Additional Information: full citation, references, citings, index terms

Keywords: access locality, continuous media, disk layout, disk seek, read ahead

13 The file system of an integrated local network

Paul J. Leach, Paul H. Levine, James A. Hamilton, Bernard L. Stumpf

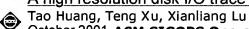
March 1985 Proceedings of the 1985 ACM thirteenth annual conference on Computer Science

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(1.78 MB) <u>terms</u>

The distributed file system component of the DOMAIN system is described. The DOMAIN system is an architecture for networks of personal workstations and servers which creates an integrated distributed computing environment. The distinctive features of the file system include: objects addressed by unique identifiers (UIDs); transparent access to objects, regardless of their location in the network; the abstraction of a single level store for accessing all objects; and the layering of a networ ...

14 A high resolution disk I/O trace system



October 2001 ACM SIGOPS Operating Systems Review, Volume 35 Issue 4

Publisher: ACM Press

Full text available: pdf(377.26 KB) Additional Information: full citation, abstract, references, index terms

Disk access patterns are more important to understand as the gap between processor and disk performance is increasing. Obtaining disk I/O traces from real system is the first step to analyze disk access patterns, and tracing disk I/O is the first step to obtain disk I/O traces from real system. This paper implements a high resolution disk I/O trace system built into Linux, without adding noticeable processor load to the system. Each trace record contains the following content about a single phys ...

Keywords: Disk access pattern, Hard disk, Linux, Trace

15 <u>Implementing global memory management in a workstation cluster</u>

M. J. Feeley, W. E. Morgan, E. P. Pighin, A. R. Karlin, H. M. Levy, C. A. Thekkath

December 1995 ACM SIGOPS Operating Systems Review , Proceedings of the fifteenth ACM symposium on Operating systems principles SOSP '95, Volume 29

Issue 5 Publisher: ACM Press

Full text available: pdf(1.52 MB) Additional Information: full citation, references, citings, index terms

16 ECOSystem: managing energy as a first class operating system resource Heng Zeng, Carla S. Ellis, Alvin R. Lebeck, Amin Vahdat





October 2002 ACM SIGPLAN Notices, ACM SIGARCH Computer Architecture News, ACM SIGOPS Operating Systems Review , Proceedings of the 10th international conference on Architectural support for programming languages and operating systems ASPLOS-X, Volume 37, 30, 36 Issue 10, 5, 5

Publisher: ACM Press

Full text available: R pdf(1.17 MB) Additional Information: full citation, abstract, references, citings

Energy consumption has recently been widely recognized as a major challenge of computer systems design. This paper explores how to support energy as a first-class operating system resource. Energy, because of its global system nature, presents challenges beyond those of conventional resource management. To meet these challenges we propose the Currentcy Model that unifies energy accounting over diverse hardware components and enables fair allocation of available energy among applications. Our par ...

17 A generalized text editor



Christopher W. Fraser

March 1980 Communications of the ACM, Volume 23 Issue 3

Publisher: ACM Press

Full text available: pdf(512.06 KB) Additional Information: full citation, abstract, references, citings

Text is not the only data that needs editing; for example, file deletion utilities edit directories. If all "editors" used the same command language, they would be easier to learn, remember, and code. This paper describes a generalized editor that edits text, directories, binary core images, and certain operating system data with a single user interface.

Keywords: CRT, command language, editor, text

Probing the black box: Transforming policies into mechanisms with infokernel



Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau, Nathan C. Burnett, Timothy E. Denehy, Thomas J. Engle, Haryadi S. Gunawi, James A. Nugent, Florentina I. Popovici October 2003 Proceedings of the nineteenth ACM symposium on Operating systems

principles **Publisher: ACM Press**

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> Full text available: pdf(365.12 KB)

We describe an evolutionary path that allows operating systems to be used in a more flexible and appropriate manner by higher-level services. An infokernel exposes key pieces of information about its algorithms and internal state; thus, its default policies become mechanisms, which can be controlled from user-level. We have implemented two prototype infokernels based on the linuxtwofour and netbsdver kernels, called infolinux and infobsd, respectively. The infokernels export key abstractions as ...

Keywords: information, mechanism, policy

19 Implementing cooperative prefetching and caching in a globally-managed memory



<u>system</u>

Geoffrey M. Voelker, Eric J. Anderson, Tracy Kimbrel, Michael J. Feeley, Jeffrey S. Chase, Anna R. Karlin, Henry M. Levy

June 1998 ACM SIGMETRICS Performance Evaluation Review, Proceedings of the 1998 ACM SIGMETRICS joint international conference on Measurement and modeling of computer systems SIGMETRICS '98/PERFORMANCE '98, Volume 26 Issue 1

Publisher: ACM Press

Full text available: pdf(1.66 MB)

Additional Information: full citation, abstract, references, citings, index terms

This paper presents cooperative prefetching and caching --- the use of network-wide global resources (memories, CPUs, and disks) to support prefetching and caching in the presence of hints of future demands. Cooperative prefetching and caching effectively unites disk-latency reduction techniques from three lines of research; prefetching algorithms, cluster-wide memory management, and parallel I/O. When used together, these techniques greatly increase the power of prefetching relative to a ...

Measuring file access patterns in UNIX

Irene Hu
August 1986 ACM SIGMETRICS Performance Evaluation Review, Volume 14 Issue 2

Publisher: ACM Press

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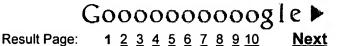
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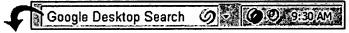
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inode.5

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... to copy the original >superblock, **inode** tables, etc to the **snapshot** once. ... I would like to make a **snapshot** of my **filesystem** while the application is ...

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ditto: Mac OS X

Anyway, I'm planning to make it use all system **commands** (mostly **ditto**) ... Nothing in a Mac OS X 10.4 could be as cool as a **metadata** driven **file** system! ... sean.typepad.com/**ditto**/mac_os_x/ - 348k - <u>Cached</u> - <u>Similar pages</u>

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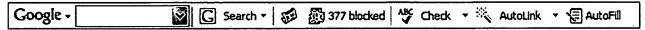
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It is derived from the HISTORY file that is included in source distributions. The latest snapshot can be found at ...

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Click on the pi_demo.cpp source file node, then right-click to see the Trace ...
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The PCH **file** contains a **snapshot** of all the code preceding the header stop point, typically the first token in the primary **source file** that does not belong ... h30097.www3.hp.com/cplus/ugu_pch.html - 35k - <u>Cached</u> - <u>Similar pages</u>

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New Repackage by Monitor and Snapshot

It is a good idea to do an **initial** scan of a clean machine which can be used ...
It can be a good idea to copy all **source file** to a repository so that the ...
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The code in this **initial** proposed contribution is a **snapshot** "midstream" of our move to ... JSP **files** also participate in the moving of Java **source files**. ... www.eclipse.org/webtools/initial-contribution/ IBM/evalGuides/SSEEval.html?p=1 - 35k - <u>Cached</u> - <u>Similar pages</u>

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			Tatebe, C Cluster C 21-24 Ma	D.; Morita, Y.; Nomputing and by 2002 Page(s	Matsuoka, S.; Soda, the Grid, 2002. 2nd	IEEE/ACM Internationa			

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IEE CNF	IEE Conference Proceeding		Mobile and Ubiquitous Systems: Networking and Services, 2005. MobiQuitous Second Annual International Conference on						
IEEE STD	IEEE Standard		17-21 July 2005 Page(s):443 - 453 Digital Object Identifier 10.1109/MOBIQUITOUS.2005.55						
			AbstractPlus Full Text: PDF(792 KB) IEEE CNF						
			2. Electron images of vidicon cathodes Corson, B.R.; Electron Devices, IEEE Transactions on Volume 12, Issue 8, Aug 1965 Page(s):449 - 457						
			AbstractPlus Full Text: PDF(3224 KB) IEEE JNL						
			 A logic programming framework for modeling temporal objects Kesim, F.N.; Sergot, M.; Knowledge and Data Engineering, IEEE Transactions on Volume 8, Issue 5, Oct. 1996 Page(s):724 - 741 Digital Object Identifier 10.1109/69.542026 						
			AbstractPlus References Full Text: PDF(1868 KB) IEEE JNL						
			4. Low-cost checkpointing and failure recovery in mobile computing system Prakash, R.; Singhal, M.; Parallel and Distributed Systems, IEEE Transactions on Volume 7, Issue 10, Oct. 1996 Page(s):1035 - 1048 Digital Object Identifier 10.1109/71.539735						
		4	AbstractPlus References Full Text: PDF(1580 KB) IEEE JNL						
			5. Independently updated views Kulkarni, U.R.; Ramirez, R.G.; Knowledge and Data Engineering, IEEE Transactions on Volume 9, Issue 5, SeptOct. 1997 Page(s):798 - 812 Digital Object Identifier 10.1109/69.634756						
			AbstractPlus References Full Text: PDF(688 KB) IEEE JNL						
		_	6						

On change diagnosis in evolving data streams

Aggarwal, C.C.; Knowledge and Data Engineering, IEEE Transactions on Volume 17, Issue 5, May 2005 Page(s):587 - 600 Digital Object Identifier 10.1109/TKDE.2005.78 AbstractPlus | Full Text: PDF(1400 KB) IEEE JNL 7. A similarity-aware multiversion concurrency control and updating algorit П date snapshots of data Gustafsson, T.; Hallqvist, H.; Hansson, J.; Real-Time Systems, 2005. (ECRTS 2005). Proceedings. 17th Euromicro Confe 6-8 July 2005 Page(s):229 - 238 Digital Object Identifier 10.1109/ECRTS.2005.4 AbstractPlus | Full Text: PDF(312 KB) | IEEE CNF 8. Byteprints: a tool to gather digital evidence Sitaraman, S.; Krishnamurthy, S.; Venkatesan, S.; Information Technology: Coding and Computing, 2005. ITCC 2005. Internation Volume 1, 4-6 April 2005 Page(s):715 - 720 Vol. 1 Digital Object Identifier 10.1109/ITCC.2005.99 AbstractPlus | Full Text: PDF(200 KB) | IEEE CNF 9. Snapshots for semantic maps Nielsen, C.W.; Ricks, B.; Goodrich, M.A.; Bruemmer, D.; Few, D.; Few, M.; Systems, Man and Cybernetics, 2004 IEEE International Conference on Volume 3, 10-13 Oct. 2004 Page(s):2853 - 2858 vol.3 Digital Object Identifier 10.1109/ICSMC.2004.1400765 AbstractPlus | Full Text: PDF(890 KB) | IEEE CNF 10. A Web based history tool for multicast e-meeting sessions П Parviainen, R.; Parries, P.; Multimedia and Expo, 2004. ICME '04. 2004 IEEE International Conference or Volume 1, 27-30 June 2004 Page(s):511 - 514 Vol.1 AbstractPlus | Full Text: PDF(681 KB) IEEE CNF 11. Parallel generation of base relation snapshots for materialized view main warehouse environment Saeki, S.; Bhalla, S.; Hasegawa, M.; Parallel Processing Workshops, 2002. Proceedings. International Conference 18-21 Aug. 2002 Page(s):383 - 390 Digital Object Identifier 10.1109/ICPPW.2002.1039755 AbstractPlus | Full Text: PDF(285 KB) | IEEE CNF 12. Class-based delta-encoding: a scalable scheme for caching dynamic Wei Distributed Computing Systems Workshops, 2002. Proceedings. 22nd Internat 2-5 July 2002 Page(s):799 - 805 Digital Object Identifier 10.1109/ICDCSW.2002.1030866 AbstractPlus | Full Text: PDF(405 KB) | IEEE CNF 13. Optimize CDMA system capacity with location П Lee, D.J.Y.; Lee, W.C.Y.; Communications, Computers and signal Processing, 2001. PACRIM. 2001 IEE Conference on Volume 1, 26-28 Aug. 2001 Page(s):17 - 21 vol.1 Digital Object Identifier 10.1109/PACRIM.2001.953512 AbstractPlus | Full Text: PDF(376 KB) | IEEE CNF

14. Optimize CDMA system capacity with location Lee, W.C.Y.; Lee, D.J.Y.; Vehicular Technology Conference, 2001. VTC 2001 Fall. IEEE VTS 54th Volume 2, 7-11 Oct. 2001 Page(s):1015 - 1019 vol.2 Digital Object Identifier 10.1109/VTC.2001.956927 AbstractPlus Full Text: PDF(320 KB) IEEE CNF
15. A new memory model for selective perception systems Soyer, C.; Bozma, H.I.; Istefanopulos, Y.; Intelligent Robots and Systems, 2000. (IROS 2000). Proceedings. 2000 IEEE/ Conference on Volume 3, 31 Oct5 Nov. 2000 Page(s):2304 - 2309 vol.3 Digital Object Identifier 10.1109/IROS.2000.895312 AbstractPlus Full Text: PDF(500 KB) IEEE CNF
16. Network engineering 2000 Lee, D.J.Y.; Lee, W.C.Y.; Microwave and Millimeter Wave Technology, 2000, 2nd International Conferer 2000 14-16 Sept. 2000 Page(s):428 - 431 Digital Object Identifier 10.1109/ICMMT.2000.895712 AbstractPlus Full Text: PDF(328 KB) IEEE CNF
17. Integrating a digital camera in the home environment: architecture and problems. International Symposium 11-13 Dec. 2000 Page(s):67 - 70 Digital Object Identifier 10.1109/MMSE.2000.897193 AbstractPlus Full Text: PDF(424 KB) IEEE CNF
18. An SQL3 snapshot Melton, J.; Data Engineering, 1996. Proceedings of the Twelfth International Conference of 26 Feb1 March 1996 Page(s):666 - 672 Digital Object Identifier 10.1109/ICDE.1996.492217 AbstractPlus Full Text: PDF(620 KB) IEEE CNF
19. Implementation of sub-aperture sampling into adaptive beamforming using radient algorithm Mandyam, G.; Ahmed, N.; Srinath, M.D.; Signals, Systems and Computers, 1995. 1995 Conference Record of the Twer Conference on Volume 1, 30 Oct2 Nov. 1995 Page(s):731 - 734 vol.1 Digital Object Identifier 10.1109/ACSSC.1995.540646 AbstractPlus Full Text: PDF(248 KB) IEEE CNF
20. A conceptual view of temporal databases Coburn, E.J.; Applied Computing, 1990., Proceedings of the 1990 Symposium on 5-6 April 1990 Page(s):170 - 173 Digital Object Identifier 10.1109/SOAC.1990.82162 AbstractPlus Full Text: PDF(292 KB) IEEE CNF
21. Oscillatron-1: a connectionist unified theory of cognition Atkins, M.A.; Neural Networks, 1991. 1991 IEEE International Joint Conference on 18-21 Nov. 1991 Page(s):60 - 65 vol.1 Digital Object Identifier 10. 1109/IJCNN 1991.170382

AbstractPlus | Full Text: PDF(364 KB) IEEE CNF

22. An intelligent page store for concurrent transaction and query processin Dias, D.M.; Goyal, A.; Parr, F.N.; Research Issues on Data Engineering, 1992: Transaction and Query Processi International Workshop on 2-3 Feb. 1992 Page(s):12 - 19 Digital Object Identifier 10.1109/RIDE.1992.227429 AbstractPlus | Full Text: PDF (748 KB) IEEE CNF 23. Neural network recognition of human face images stored in the database Badal, D.Z.; Computers and Communications, 1993., Twelfth Annual International Phoenix 23-26 March 1993 Page(s):552 - 558 Digital Object Identifier 10.1109/PCCC.1993.344529 AbstractPlus | Full Text: PDF(696 KB) IEEE CNF 24. An efficient subspace algorithm for 2-D harmonic retrieval Vanpoucke, F.; Moonen, M.; Berthoumieu, Y.; Acoustics, Speech, and Signal Processing, 1994. ICASSP-94., 1994 IEEE Inte Conference on Volume iv, 19-22 April 1994 Page(s):IV/461 - IV/464 vol.4 Digital Object Identifier 10.1109/ICASSP.1994.389780 AbstractPlus | Full Text: PDF(252 KB) IEEE CNF

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1. MRAMFS: a compressing file system for non-volatile RAM

Edel, N.K.; Tuteja, D.; Miller, E.L.; Brandt, S.A.;

Modeling, Analysis, and Simulation of Computer and Telecommunications Sys (MASCOTS 2004). Proceedings. The IEEE Computer Society's 12th Annual In

Symposium on

4-8 Oct. 2004 Page(s):596 - 603

Digital Object Identifier 10.1109/MASCOT.2004.1348317

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